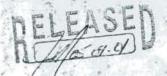
5/46

SPLIT

DART AEROSPACE LTD	Work Order:	24315 B
	A 0	104
Description: Skidtube Material	 Part Number:	D6014-064
64	£ 11 \$.	
Dwg: D6014 Rev. A	Qty:	36
NAME OF THE PARTY		Page 1 of 1

Step	Location	Procedure	By	Date	Qty
1	DC	Issue Traveler	4	05.10.103	36
2	PG	Issue P/O: 200862(a) Extrude as per Dwg D6014 b) Material: 7075-T73/T73510/T73511 (QQ-A-200/11) Seamless Aluminum Tube c) Minimum ultimate tensile strength = 68 ksi d) Minimum tensile yield strength = 57 ksi Possible Supplier: Aluminum Works Material certification is required	u	os A-N	36
3	RG	Receive and Inspect for transit damage Ensure Material certification is attached	CJ.	0012106	28
4	QC6	Inspect dimensions as per Dwg D6014 Ensure Material certification complies with Dwg D6014	m	estiala	20
5	FP	Chemical Conversion Coat as per QSI 005 4.1	1. 3	40.	
6	QC3	Inspect Chemical Conversion Coat	A		
7	ST	Identify and Stock	14	05/10/06	77
8	AC	Cost / part:	1	1.501	28
9	DC	Close W/O Inspect Level 21	1	06/05/01	28

Revised By Approv		Change	Date	Rev
KJ/JLM / /A/	The state of the s	New issue	05.08.31	Α
	THE RESERVE ASS	New issue	05.08.31	Α



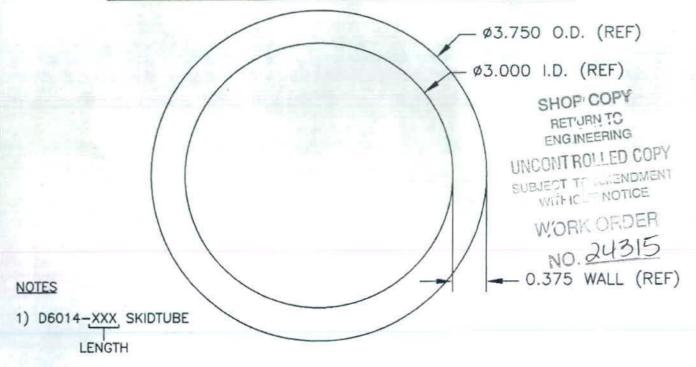




DESIGN	DRAWN BY	DART	AEROSPACE PORT HADLOCK,	
CHECKED	APPROVED	DRAWING NO. D6014		REV. A SHEET 1 OF 1
DATE 05.03.18		TITLE SKIDTUBE	MATERIAL	SCALE 1:1
A	05.03.18	NEW ISSU	JE	

RELEASED

SPECIFICATION CONTROL DRAWING



WHERE XXX IS LENGTH IN INCHES EG. 64" LONG TUBE: D6014-064

2) MATERIAL: 3.750 OD x 0.375 WALL 7075-T73/T73510/T73511 PER QQ-A-200/11

SEAMLESS ALUMINUM TUBE.

MINIMUM ULTIMATE TENSILE STRENGTH = 68 ksi MINIMUM YIELD TENSILE STRENGTH = 57 ksi

3) TOLERANCES ARE PER ASTM B210 AS FOLLOWS:

O.D.: \pm 0.008 MEAN (\pm 0.016 INCLUDING OVALITY) WALL: \pm 0.015 MEAN (\pm 0.038 INCLUDING ECCENTRICITY)

LENGTH: XXX +0.188/-0.000

STRAIGHTNESS: 0.010" DEVIATION / 12" LENGTH

4) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

5) CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

Copyright @ 2005 by DART AEROSPACE USA, INC.

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.

*			



Job Costing Report

Dart Aerospace Lto Hawkesbury	d.					Sep 2	0, 2005 am	
Work Order No Project Name Project For Work Order Type Main WO Number House Part Number Description : Manufactured : No Amount Req'd : Amount Done : Start Date Est Finish Date	:::::::::::::::::::::::::::::::::::::::	0024315 D6014-104 WK546 Main D6014-104		Department Burden Fla WO Status Invoice St Invoice Da Invoice Am Order Entr OE Value	ags : cate : tte : mber : nount :	NNNN Open Not		
Act Finish Date	:			Eat Maxle II	-	0	0000	
Drawings Reqd	:	No		Est Mark U Actual Mar			.000% .000%	
Ok for Approval Approval Rec'd	:			\$0 Posted				
=======================================		Estimated	Actual	Var. %	Post	ed	To Post	
Material Cost Engineering Hours	:	0.00 0.00	0.00 0.00	0.00	0.	00	0.00	==
Engineering Cost Production Hours	:	0.00	0.00	0.00	0.	00	0.00	
Production Cost Packaging Hours	:	0.00	0.00	0.00	0:	00	0.00	
Packaging Cost OverHead Hours OverHead Cost	:	0.00	0.00	0.00	0.		0.00	
CNC Hours	:	0.00	0.00	0.00	0.		0.00	
Misc. Hours	: :	0.00	0.00	0.00	0.		0.00	
Burden	•	0.00	0.00	0.00	0.0	00	0.00	
burden	:	0.00	0.00	0.00				
Total Cost Mark up	:	0.00	0.00	0.00				
0 771	:	0.00	0.00					

Actual

0.00

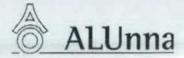
0.00

Estimated

0.00

0.00

Labour Hrs/Amount Done : Profits/(Loss) :



Abnahmeprüfzeugnis 3.1 - EN 10204:2004

Inspection Certificate 3.1 - EN 10204:2004 | Certificat de Reception 3.1- EN 10204:2004

Kunde:

Dart Aerospace Ltd.

Client:

Zeugnisnummer: Cert No.: / No. du certificat: 837/05

1270 Aberdeen Street

Bestellnummer:

K6A1K7

Hawkesbury, ON

Order No. / No. de commande

2008621

Produkt:

Rohre nahtlos gepresst

Auftrag:

15626/1

Product / Produit:

Tubes seamless extruded Tubes file sur aiguille AMS - QQ - A - 200/11E

Our Reference/Notre Reference:

Spezifikation:

Specification:

7075

Zustand:

T 73511

Werkstoff: Alloy/Alliage:

Temper/Etat

Abmessung Size / Dimension 3,750 INCH D6014-104

x 3,000 INCH x 0,375 INCH x 104,000 INCH

Kennzeichnung

ALUnna-Cert No.837/05-7075-T73511-cast No.4692-AMS-QQA/200/11E-3.750" OD X0.375"Wall-Heat No.250/10-

Marking/Marguage:

lot15626/1-1-P.O.2008621

lbs

Lieferung

Delivered Material / Matérial délivre:

pcs.

1197

1. Chemische Analyse

Chemical Analysis / analyse chimique

		Si	Fe	Cu	Mn	Mg	a	Zn	Ti	Pb	Zr	Bi	Sn	Ni
Charge/	min.			1,2		2,1	0,18	5,1						
Cast No.	max.	0,40	0,50	2,0	0,30	2,9	0,28	6,1	0,20					
4692/05		0,077	0,174	1,445	0,032	2,415	0,210	5,898	0,039	0,003	0,0344	0,0001	0,0013	0,0040

Elements without indication < 0,01 %

2. Mechanische Eigenschaften

Mechanical Properties / Valeurs Mécaniques

Anforderungen Requirements	tensile (Rm) ksi	yield (Rp0,2) ksi	elongation 2" %	elongation A %	Hardness HB	Heat No.
min. max.	68,0	57,0				
1 2	80,330 79,605	71,775 70,035	11,0 11,0		151 146	250/10 - 28 pcs.

Ergebnis der Prüfungen:

Es wird bestätigt, daß die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellannahme

Test results: Resultats:

We confirm that the delivery has been tested and applies to the agreements made on receipt of the order Nous confirmons que la livraison a été controlée et correspond avec les conventions faites à la réception de la commande

KroosD

31.10.2005

entspricht

Certified acc. to DIN EN ISO 9001:2000, valid until 2006-03-09 Certificate No.: 001959 QM

ALUnna

Abnahmebeauftragter

12.					
4.5					



Aluminiumwerk Unna AG Uelzener Weg 36 D-59425 Unna

DART AEROSPACE LTD. 1270 Aberdeen Street CDN K6A 1K7 HAWKESBURY

RECEIVED COT 1 a mass

Aluminiumwerk Unna AG Uelzener Weg 36 - D-59425 Unna Postfach 11 46 · D-59401

fon +49 (0) 23 03-206 - 0 fax +49 (0) 23 03-206-116

> info@alu-unna.de www.alu-unna.de

page: date: 5.10.2005

customer

40980

order confirmation

15626

your PO dated: 12.09.2005

your PO No.: 2008621

your ref.:

Linda Lacelle

contact: Tel .:

Fax:

+(303) 755 5672 +(303) 755 5936

representative: CLAUS J. BETTER

Your VAT No. :

AWU VAT No. :

DE177869055

We supply acc. to our delivery terms and conditions:

quantity unitprice USD unit value item

USD

despatch date: dollively

Petra Eisenblätter

36,000 PC

353,05 Dec, 010 0 x02/11/08

2005.49

Technical Amendment

RECID 28 CZOS/12/06

AWU article: 19932 / Tariff no. 76082091

Customer article: D6014-104 3.750 X 0.375 X 104

product: TUBES / seamless extruded / EN AW-7075 / round

condition: T 73511 / AMS-QQ-A-200/11E

outer diameter:

3,750 INCH Tol.

PC

+0,016 -0,016

tol.for mean OD

+0,008 -0,008

inner diameter: wall thickness: 3,000 INCH 0,375 INCH Tol.

+0,038 -0,038

fixed length

104,000 INCH Tol.

+0,188

inspection cert.acc. to EN10204/3.1 / RM 469 / Rp0,2: 393

straightness 0,01 INCH / 1 FEET / RMS outer 25

tol. on quantity +10 % -10 %

3.750" OD 0.375"Wall, 104" lengths

Part Number D6014-104 skidtube

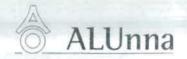
Tolerances per ASTM B210

Outside surface: max. defects up to 0.005" (longitudinally)

Tubes protected with corrosion protective oil

Commerzbank AG, Unna Konto-Nr. 102 56 00 - BLZ 443 400 37 S.W.I.F.T. - Code: COBADE FF 443 IBAN: DE 90 4434 0037 01025600 00

Little -		
المحمد والمحمد	C. Marie Land of State and Alberta St. of	3



order confirmation

15626

page:

2

date: customer 5.10.2005 40980

Tubes line marked

Packing:

terms of delivery:

seaworthy wooden cases

DDP (Delivered, Duty, Paid)

Terms of payment:

30 days after date of delivery

delivery address:

Dart Aerospace Ltd. 1270 Aberdeen Street

CDN Hawkesbury, ONT, K6A1K7

